Dominion® KX II

The most comprehensive KVM-over-IP solution in the industry

Dominion KX II Series

Enterprise-class KVM-over-IP switch with integrated local and secure multiplatform remote access

KX2-464**
– 64 KVM ports
– 1 user at the rack
– 4 remote users over the network

KX2-432
– 32 KVM ports
– 1 user at the rack
– 4 remote users over the network

KX2-416
– 16 KVM ports
– 1 user at the rack
– 4 remote users over the network

KX2-232
– 32 KVM ports
– 1 user at the rack
– 2 remote users over the network

KX2-216
– 16 KVM ports
– 1 user at the rack
– 2 remote users over the network

KX2-132
– 32 KVM ports
– 1 user at the rack
– 1 remote user over the network

KX2-116
– 16 KVM ports
– 1 user at the rack
– 1 remote user over the network

KVM-over-IP the way it should be.

The Dominion KX II is an enterprise-class, secure, KVM-over-IP switch that provides remote BIOS-level control of up to 64 servers. It raises the bar in KVM-over-IP technology with standard features such as Virtual Media and dual power – available on all models – that maximize performance, security, reliability and versatility.

Raritan's Universal Virtual Media lets administrators perform tasks such as installing software, transferring files and backing up data. A user can mount drives and media from the user's desktop to servers in the data center during a KVM session.

Our Virtual KVM Desktop™ allows users to scale a target server's display to any size, from thumbnails to full screen video. Transparent keyboard handling sends virtually every keystroke combination straight to the server, for a user experience that's nearly indistinguishable from an at-the-rack connection. Plus, it provides an intuitive user experience – whether the target servers are being accessed locally or remotely – through a common browser-based user interface. This interface supports the industry's widest range of operating systems and browsers.

The Dominion KX II also features Absolute Mouse Synchronization™, which reduces installation time and sets a new standard for mouse synchronization. Combined with high-quality, 1600 x 1200 video resolution, Virtual KVM Desktop and Virtual Media features, it provides the industry's most flexible and responsive remote user experience available.

And with dual power supplies and dual gigabit Ethernet ports, both with automatic failover, the Dominion KX II is the most reliable digital KVM switch in the industry.

Architecture

The Dominion KX II consists of the KVM-over-IP switch and Computer Interface Modules (CIMs).

➤ Each CIM connects to the server's KVM ports and converts video signals for transmission of up to 150 feet over UTP (Cat5/5e/6) cabling. CIMs also provide keep-alive keyboard/mouse emulation.

➤ Dominion KX II offers KVM-over-IP capabilities for remote access, plus simultaneous local access for controlling servers at the rack.

➤ Remote users easily access Dominion KX II from Windows®, Linux®, Sun® or Mac® desktops via a wide range of Web browsers or standalone client via modem. Raritan's remote client software is automatically downloaded via Web browser; standalone versions of client software can be pre-installed for modem access.

➤ Dominion KX II provides its entire feature set out of the box: Virtual Media, AES encryption, dual power supplies and dual gigabit Ethernet ports with failover, SNMP, Syslog, as well as integration with LDAP, Radius and Active Directory® authentication.

Raritan®
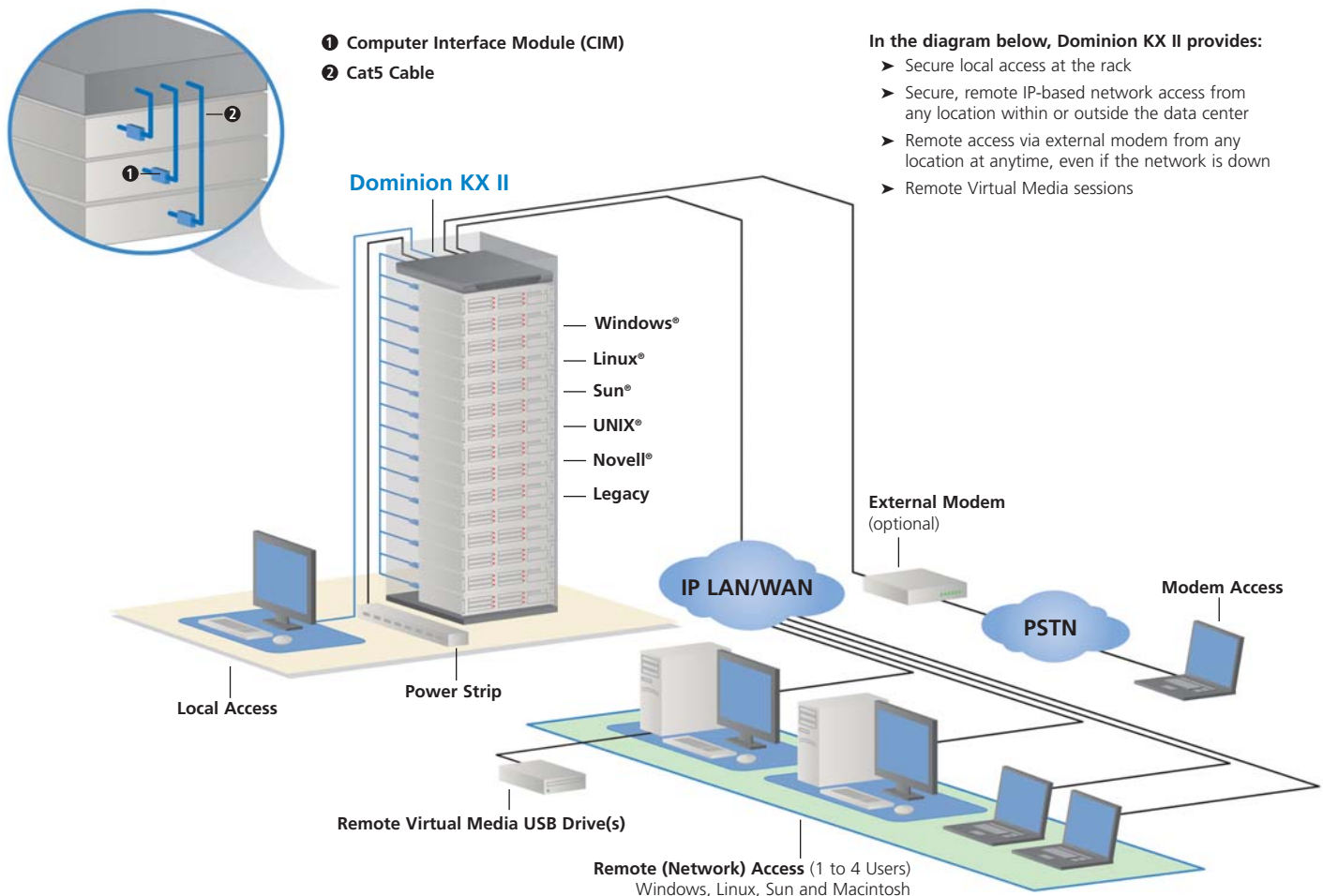### When you're ready to take control®

Raises Productivity while Enhancing Security

Lowers costs, increases productivity while reducing mean-time-to-repair

➤ Reduces expensive downtime by providing out-of-band access in emergencies

➤ Virtual Media gives users virtual access to storage media and enables them to exchange information between remote users and target servers – through the KVM connection – via the server's USB port

➤ Minimizes expensive and inconvenient travel to remote locations

➤ Common Web browser interface for remote and local access

➤ Remotely controls power to servers with optional remote power strips

➤ Operates with select Paragon® and Dominion KX I CIMs

Secure

➤ Secure Linux-based appliance

➤ 128-bit SSL AES or RC4 encryption

➤ All data encrypted, including video transmissions and Virtual Media

➤ Local or centralized authentication with LDAP, RADIUS or Active Directory support

➤ Configurable user and group permissions for server access and control

➤ Local and remote access logged and authenticated

➤ Uses configurable TCP port to preserve strict firewall settings

➤ Supports strong password protection

❶ Computer Interface Module (CIM)
❷ Cat5 Cable

In the diagram below, Dominion KX II provides:
➤ Secure local access at the rack
➤ Secure, remote IP-based network access from any location within or outside the data center
➤ Remote access via external modem from any location at anytime, even if the network is down
➤ Remote Virtual Media sessions

Dominion KX II

Windows®
Linux®
Sun®
UNIX®
Novell®
Legacy

External Modem (optional)

IP LAN/WAN

Modem Access

PSTN

Local Access

Power Strip

Remote Virtual Media USB Drive(s)

Remote (Network) Access (1 to 4 Users)
Windows, Linux, Sun and Macintosh

Easy to Install, Easy to Use

Easy to install and scale

➤ Easy installation – plug-and-play appliance, up and running in minutes

➤ One Dominion KX II device manages an entire rack or row of servers

➤ Hot-swap functionality allows users to add, relocate and swap components without disruption as your data center grows

➤ Deploy individually or integrate with any of Raritan's enterprise-wide data center solutions, using CommandCenter® Secure Gateway (CC-SG)

Features

➤ One, two or four remote KVM-over-IP channels

➤ Highest port density in the industry – models available with 16, 32 and 64 ports

➤ Dual power supplies with failover

➤ Dual gigabit Ethernet ports with failover

➤ Browser-based local user port for at-the-rack access

➤ SNMP management and syslog logging

➤ Plug-and-play installation

➤ Platform Independent - CIMs available for PS/2®, USB, USB with Virtual Media, Sun® and Sun USB

➤ External modem for emergency access

➤ Flash firmware upgrades

Universal Virtual Media

➤ Standard on all Dominion KX II models

➤ Works standalone or with CC-SG

➤ Exchange installation files and other media between a target server and a remote user over KVM ports

➤ Works across conforming USB enabled operating systems

➤ Includes DVD/CD-ROMs, USB storage devices and others

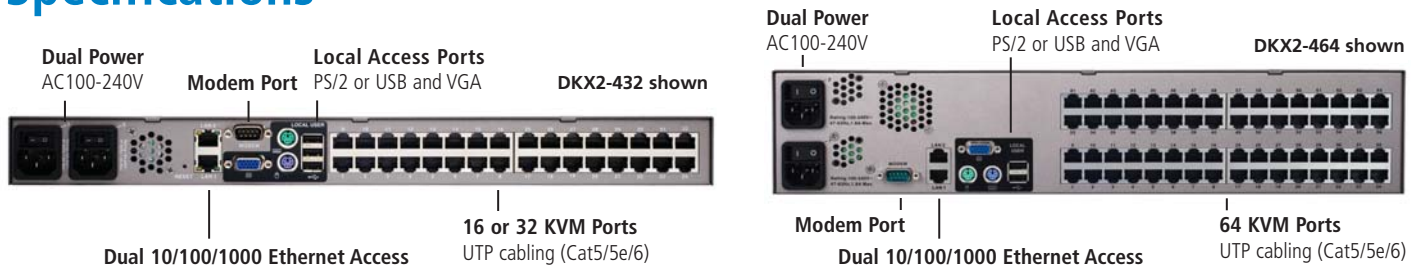## Anytime, Anywhere Access and Control

Highest quality KVM-over-IP

➤ Award-winning KVM-over-IP technology

➤ Fastest, tightest mouse synchronization in the industry

➤ Intuitive Graphical User Interface (GUI)

➤ High quality video with low bandwidth utilization

➤ High (15-bit) color palette support

➤ Adaptive video settings for different bandwidth situations, including modem access

Virtual KVM Desktop

➤ Integrated, browser-based access and control

➤ Universal KVM Client™ supports Windows, Linux, Sun and Mac clients

➤ Multibrowser access for Internet Explorer, Firefox and Mozilla™

➤ Full screen video display

➤ Transparent keyboard handler

➤ Flexible video scaling

When you're ready to take control, do it with Dominion KX II.

Call 1.800.724.8090 or visit Raritan.com/KXII

Raritan is a leading supplier of solutions for managing IT infrastructure equipment and the mission-critical applications and services that run on it. Raritan was founded in 1985, and since then has been making products that are used to control millions of servers at more than 50,000 network data centers, computer test labs and multiworkstation environments around the world. From the small business to the enterprise, Raritan's complete line of compatible and scalable KVM and remote connectivity products offers IT professionals the most reliable, flexible and secure in-band and out-of-band solutions to manage data center equipment applications and services, while improving operational productivity. More information on the company is available at Raritan.com.

Specifications

Dual Power
AC100-240V

Modem Port

Local Access Ports
PS/2 or USB and VGA

DKX2-432 shown

Dual Power
AC100-240V

Local Access Ports
PS/2 or USB and VGA

DKX2-464 shown

16 or 32 KVM Ports
UTP cabling (Cat5/5e/6)

Dual 10/100/1000 Ethernet Access

Modem Port

Dual 10/100/1000 Ethernet Access

64 KVM Ports
UTP cabling (Cat5/5e/6)

Dominion KX II Model	Description	Dimensions - (WxDxH)	Weight	Power
DKX2-464	64 server ports, 4 remote users, 1 local port for use at the rack	17.3"x 11.4"x 3.5"; 439 x 290 x 90mm	13.73 lbs; 6.24kg	Dual Power 100V/240V 47/63Hz 1.8A
DKX2-432	32 server ports, 4 remote users, 1 local port for use at the rack	17.3"x 11.4"x 1.75"; 439 x 290 x 44mm	9.48 lbs; 4.3kg	Dual Power 100V/240V 50/60Hz 1A
DKX2-416	16 server ports, 4 remote users, 1 local port for use at the rack	17.3"x 11.4"x 1.75"; 439 x 290 x 44mm	9.04 lbs; 4.1kg	Dual Power 100V/240V 50/60Hz 1A
DKX2-232	32 server ports, 2 remote users, 1 local port for use at the rack	17.3"x 11.4"x 1.75"; 439 x 290 x 44mm	9.0 lbs; 4.1kg	Dual Power 100V/240V 50/60Hz 0.6A
DKX2-216	16 server ports, 2 remote users, 1 local port for use at the rack	17.3"x 11.4"x 1.75"; 439 x 290 x 44mm	8.65 lbs; 3.9kg	Dual Power 100V/240V 50/60Hz 0.6A
DKX2-132	32 server ports, 1 remote user, 1 local port for use at the rack	17.3"x 11.4"x 1.75"; 439 x 290 x 44mm	9.0 lbs; 4.1kg	Dual Power 100V/240V 50/60Hz 0.6A
DKX2-116	16 server ports, 1 remote user, 1 local port for use at the rack	17.3"x 11.4"x 1.75"; 439 x 290 x 44mm	8.65 lbs; 3.9kg	Dual Power 100V/240V 50/60Hz 0.6A

Computer Interface Modules (CIMs)			
CIM Model	Description	Dimensions - WxDxH	Weight
D2CIM-VUSB	USB CIM for Virtual Media, Absolute Mouse Synchronization	1.3"x 3.0"x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
DCIM-PS2	CIM for PS/2	1.3"x 3.0"x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
DCIM-SUN	CIM for SUN	1.3"x 3.0"x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
DCIM-USB	CIM for USB	1.3"x 3.0"x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
DCIM-SUSB	CIM for SUN USB	1.3"x 3.0"x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
D2CIM-PWR	CIM for remote power management	1.3"x 3.0"x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
P2CIM-SER	Paragon II / Dominion KX II CIM for serial (ASCII) devices	1.3"x 3.0"x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg

Specifications for all Dominion KX II Models	
Form Factor	1U and 2U full width, rack mountable (brackets included)
Operating Temperature Humidity	0° - 40°C (32° - 104°F) 20% - 85% RH
Remote Connection Network Modem Port Protocols	Dual 10/100/1000 gigabit Ethernet Access DB9(F) DTE TCP/IP, HTTP, HTTPS, UDP, RADIUS, SNTP, DHCP, PAP, CHAP
Local Access Port Video Keyboard/Mouse	HD15(F) VGA Mini-DIN6(F) PS/2 and USB (F), 1 USB front, 3 USB rear
Sample Video Resolutions PC text mode PC graphic mode Sun® video mode	640x350, 640x480, 720x400 640x480, 800x600, 1024x768, 1152x864, 1280x1024, 1600x1200 1024x768, 1152x864, 1152x900, 1280x1024
Warranty	Two Years with Advanced Replacement*

D2CIM-VUSB

D2CIM-PWR

DCIM-PS2

DCIM-SUN

*To qualify for advanced replacement under the standard warranty, you must register the product at http://Raritan.com/standard_warranty.
Specifications are subject to change without notice.
** KX2-464 available 3Q07.
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